



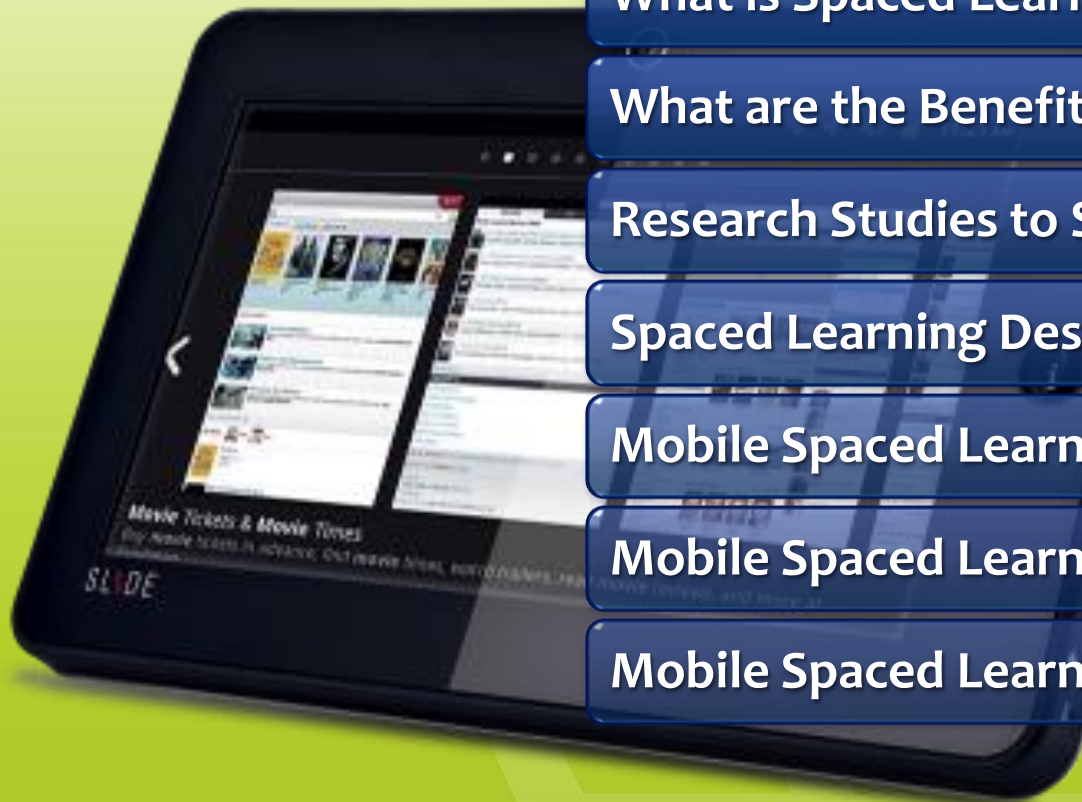
# Spaced Mobile Learning a New Model for Mobile Learning

Presented by: Harvey Singh (CEO, Instancy, Inc.)

View PowerPoint Slides (Spaced Learning):

[http://www.instancy.com/Webinar/Spaced\\_Mobile\\_Learning.aspx](http://www.instancy.com/Webinar/Spaced_Mobile_Learning.aspx)

# Spaced Mobile Learning - a New Model for Mobile Learning [AGENDA]



What is Spaced Learning?

What are the Benefits of Spaced Learning ?

Research Studies to Show Spaced Learning Works

Spaced Learning Design

Mobile Spaced Learning Design

Mobile Spaced Learning Architecture

Mobile Spaced Learning Interface & Implementation

# What is Spaced Learning?

Attempt to make learning more effective



**Extending the Learning Time Line**

**Examples: Blended Learning, Flipped Classroom**

## THE RESULTS

### BEFORE THE FLIP

**+50%**

of freshmen  
failed English

**44%**

of freshmen  
failed math

**736**

discipline cases  
in one semester

### AFTER THE FLIP

**19%**

of freshmen  
failed English

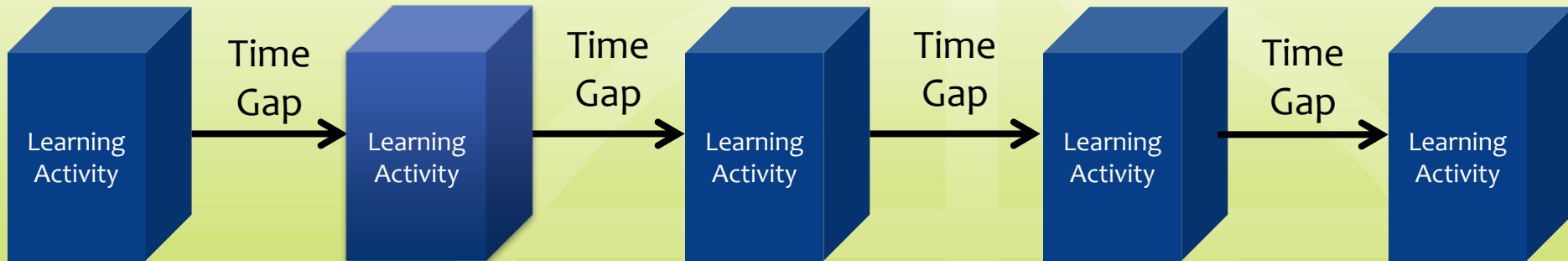
**13%**

of freshmen  
failed math

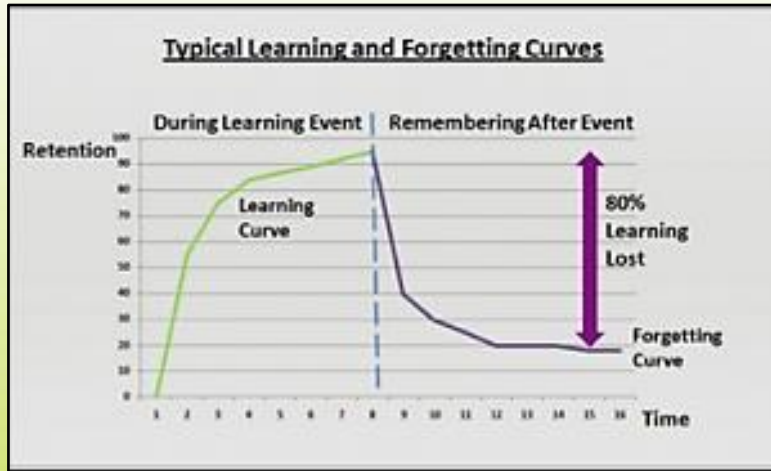
**249**

discipline cases  
in one semester

# Extending the Learning Time Line with Repetitions and Gaps

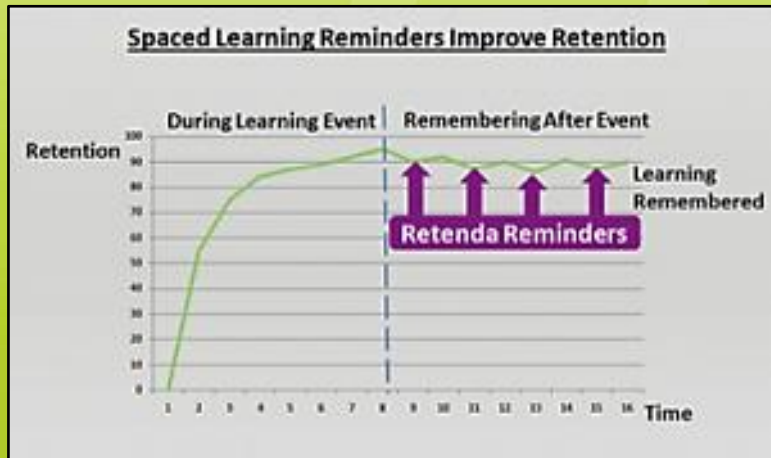


- Spaced learning can be done in the classroom
- **Spaced learning is easier to do with the help of technology  
Particularly Mobile technology and Push Notifications**



## The Theory of Disuse

- After we learn a piece of information we start to forget it.
- The longer we leave it, the more likely it is that the memory 'decays' and we forget.



## Retention Through Repetition

- If we revisit this information at regular intervals we are much more likely to remember it.

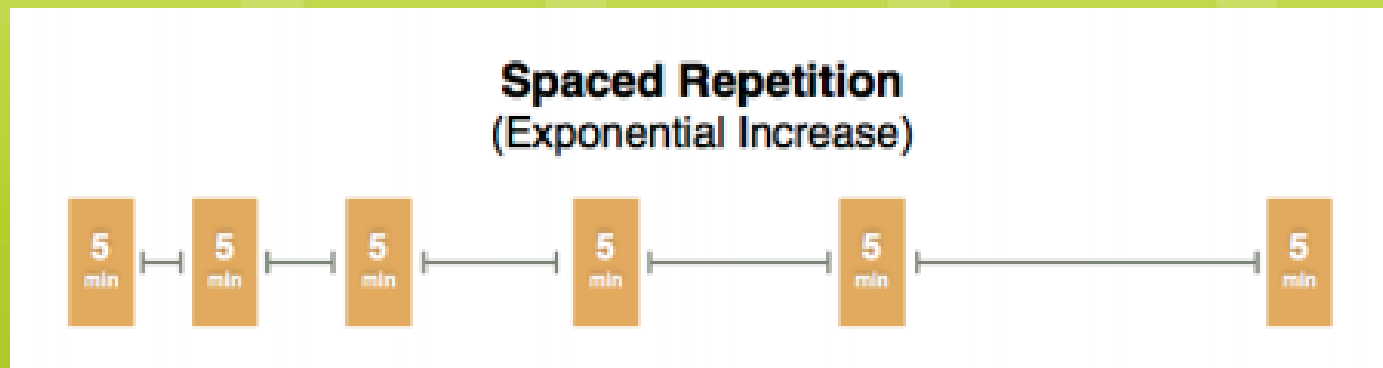
- The human brain consists of about one billion neurons.
- Each neuron forms about 1,000 connections to other neurons, amounting to more than a trillion connections.
- Human brain can store memory equivalent to 3 million hours of TV shows. Considering human life Expectancy, it is arguably impossible to run out of memory. So why do we forget things?
- In 1885, German psychologist, Hermann Ebbinghaus tested the strength of a memory. He realized that there is an exponential loss of memory as the duration of time increases. This is displayed in what is known today as the Forgetting Curve.

# Research on Spaced Learning

Individuals more easily learn information when studied a few times over an extended period of time as compared to when studied repeatedly for a short time.



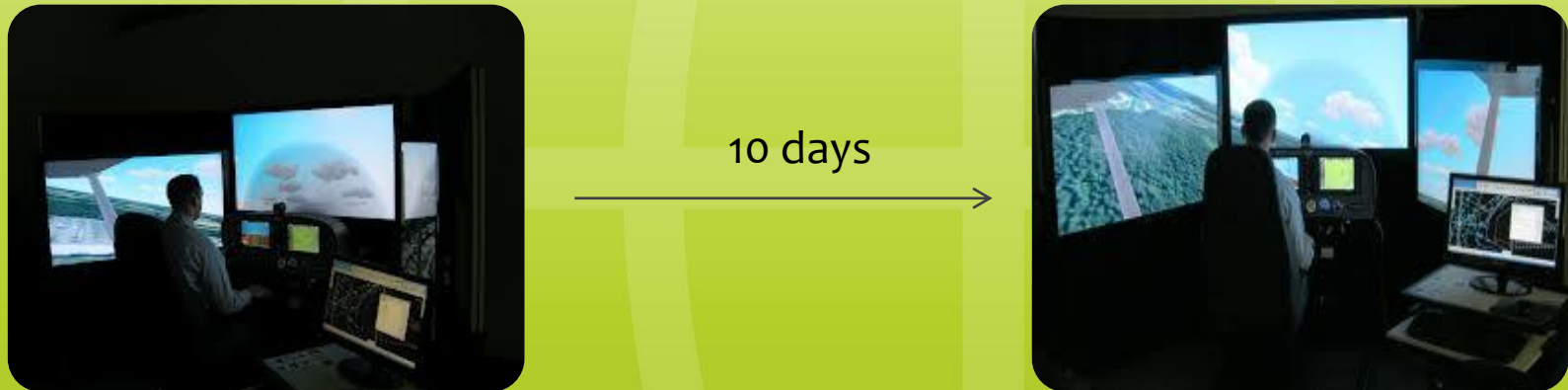
- Over 800 experiments were performed to determine the efficiency and effectiveness of spaced repetition
- Researchers saw that spaced repetition increased long term retention in individuals by 200%.
- But the most fascinating finding from these experiments revealed that there was an “optimal time” to review information to exponentially extend the life of the memory into the future, decreasing the amount of times that review needs to occur. That optimal time is just before the forgetting phase.



# Research Studies to Show that Spaced Learning Works - 1

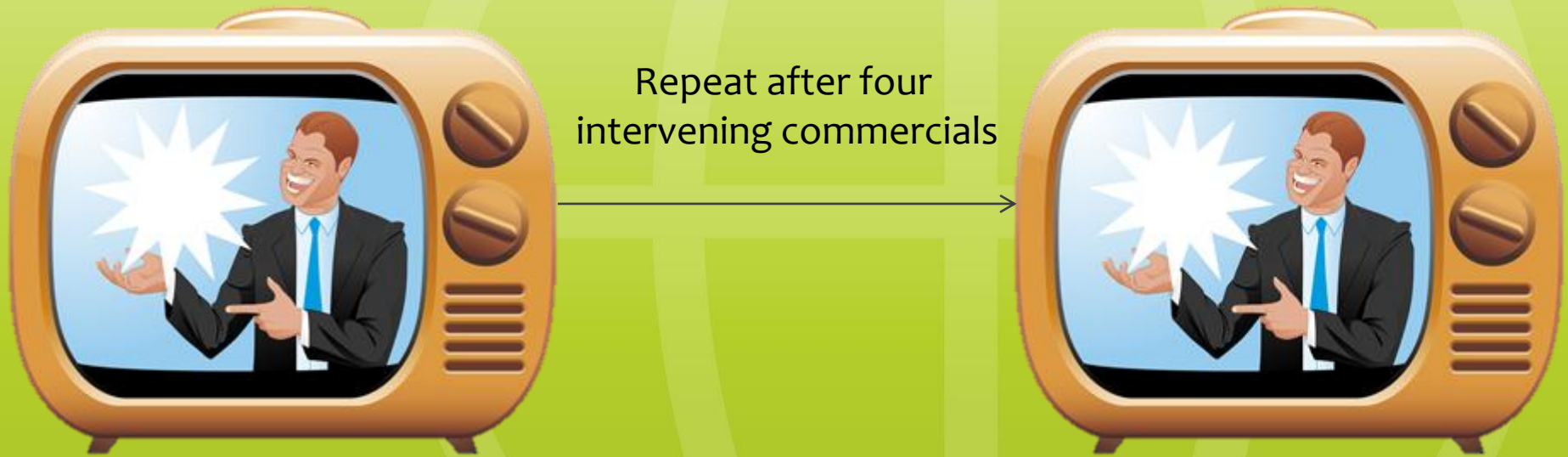
In a simulated pilot-training experiment, Shebilske, Goettl, Corrington, and Day (1999) found that

learners who had two learning opportunities spaced at ten days outperformed those who had them spaced at two days by 49% on immediate tests of retention and 42% on tests that were delayed one week.



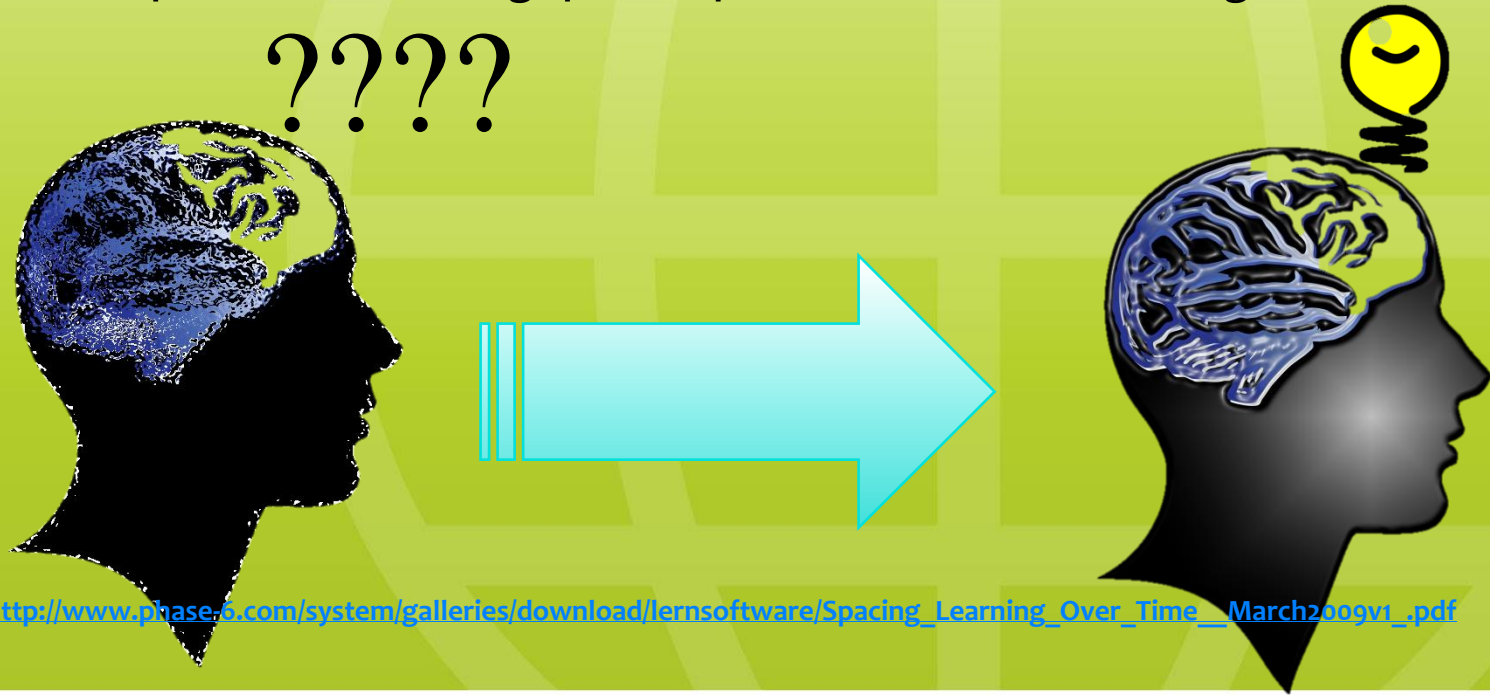
# Research Studies to Show that Spaced Learning Works

Singh, Mishra, Bendapudi, and Linville (1994) found that television commercials that were repeated after four intervening commercials (spaced) produced better memory the following day than commercials that were repeated with only one intervening commercial (less-spaced) by 18% for younger adults and 160% for older adults.



# What is Spaced Learning?

- Spacing repetitions of learning over a period of time with gap or space in between each repetition
- Repeated stimulation of the same neural pathway to promote the ability to retrieve the information
- Constant or long duration of stimulation is not helpful
- Allow learners to engage at a deeper level with the learning materials
- The power is in the 'gap' or 'space' between learning sessions



# What are the Benefits of Spaced Learning?

- Spacing helps minimize forgetting and boost long term remembering
- Spaced repetitions can be beneficial in making ideas more persuasive
- Improving learning effectiveness by facilitating the application of learning to the job-tasks

# Spaced Learning Design

*The key to long-term memory formation is not the amount of time spent learning, but the amount of time between learning*

- Each learning session should present the same learning content in a different way
- During the gap – involve different part of the brain (do activities unrelated to primary learning activity/content)
- Present a learning session just before the forgetting stage; the ideal spacing interval should be roughly equal to the retention interval

## Suggested Spaced Learning Design Model

- Present ('Tell me/Show me')
- Recall - content presented with some missing information ('Let me')
- Understand - (apply knowledge/skill and problem solving); 'Test me'

# Designing Learning Nuggets for Spaced Learning

## Model 1: Independent Learning Nuggets



Learning Nugget 1



Learning Nugget 2



Learning Nugget 3



Learning Nugget 4



Learning Nugget 5

## Model 2: Independent Learning Nuggets

eLearning Course (reusing individual pages without re-authoring )



Lesson 1



Lesson 2



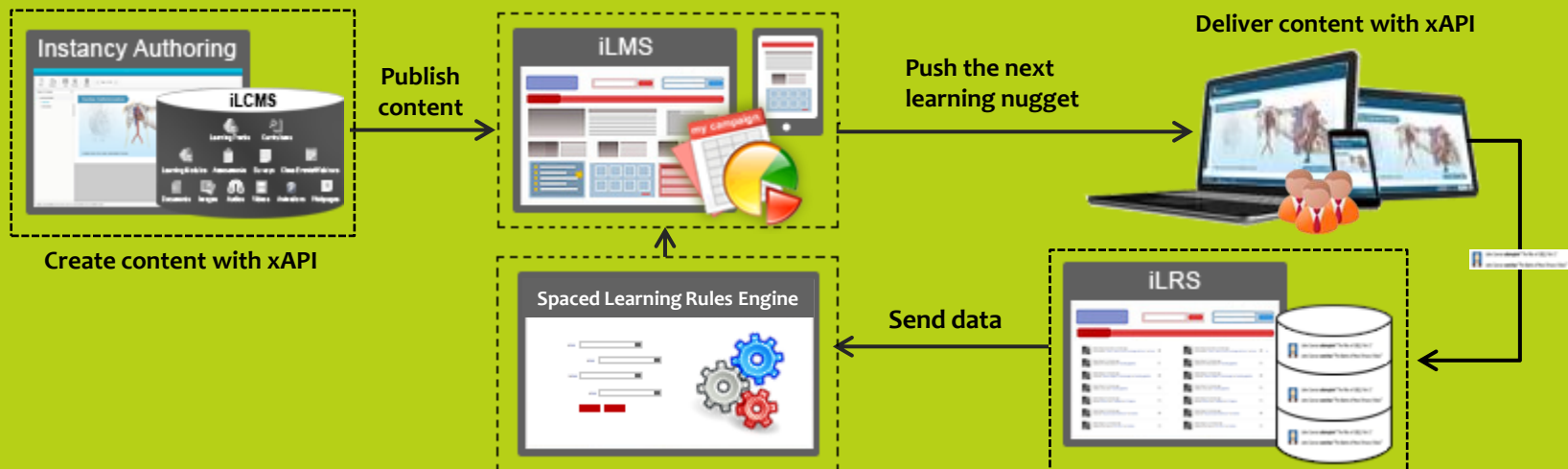
Lesson 3

# Mobile Spaced Learning Design

*Mobile Spaced Learning could supplement classroom, virtual classroom or web-based eLearning course or Mobile Spaced Learning can offer the content + repetition entirely in a mobile environment*

- Make content chunks small
- Include multiple content types and vary content with each repetition
  - Multimedia learning modules
  - Assessments
  - Documents
  - Performance Support
  - Video/Audio
- Can use specific screens/pages within a learning module or assessment
- Repeat content until successful completion (example, learner needs to answer the same question two times in row before the question is eliminated)
- Make content chunks searchable
- Allow learners to select spacing/timing
- Gamification: Create a sense of competition among learners

# Spaced Learning Architecture



## Server-side (LMS, LCMS, LRS)

- Content Server/Content Delivery Server  
Learning Object Repository (Author Role)
- User management, reports and analytics  
(Admin Role)
- Auto Responder/Push Notifications and  
Spaced Learning Rules Engine

## Mobile Client-side

- Mobile Learning App
- Push Notification
- View content
- Fire Experience API Statements
- View personal progress

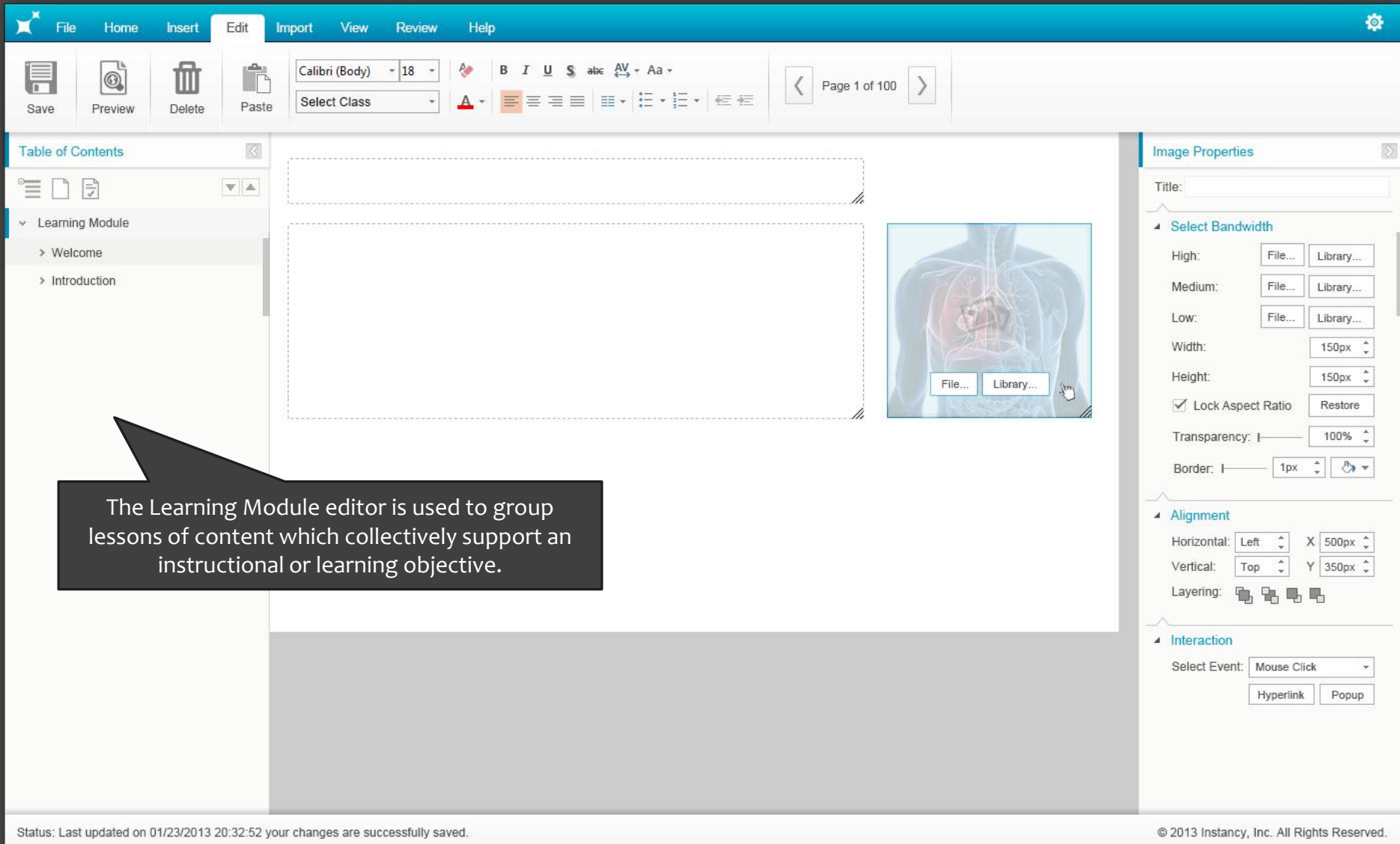
# Mobile Spaced Learning Implementation

- Step 1: Create Content/Learning Object Repository
- Step 2: Set spaced learning parameters and Rules
- Step 3: Assign content to learners and enable learners to change spacing
- Step 4: Learner can track their own progress and complete
- Step 5: View dashboards and Learner progress reports

## Step 1: Create Content



# Built-in Authoring tool – Learning Module Editor



**Table of Contents**

- Learning Module
  - Welcome
  - Introduction

**Image Properties**

Title:

**Select Bandwidth**

High:

Medium:

Low:

Width:

Height:

☒ Lock Aspect Ratio

Transparency:

Border:

**Alignment**

Horizontal:  X

Vertical:  Y

Layering:

**Interaction**

Select Event:

Status: Last updated on 01/23/2013 20:32:52 your changes are successfully saved.

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The Learning Module editor is used to group lessons of content which collectively support an instructional or learning objective.

# Instancy MS Word to eLearning Conversion Tool

FileHomeInsert






 Save  Preview  Page  Previous  Next

Table of Contents

Properties

Microsoft Word Import

Navigation:

Show: ☐ Pages ☐ Topics ☒ All

☒ Re-Start Page Numbering For Each Topic

☐ Expand All ☒ Collapse All

☐ Automatically Expand Topic Based On Current Page

Completion Criteria:

\*Progress:  %Completion

Options:

Dynamic

Bandwidth:


Custom Logo:

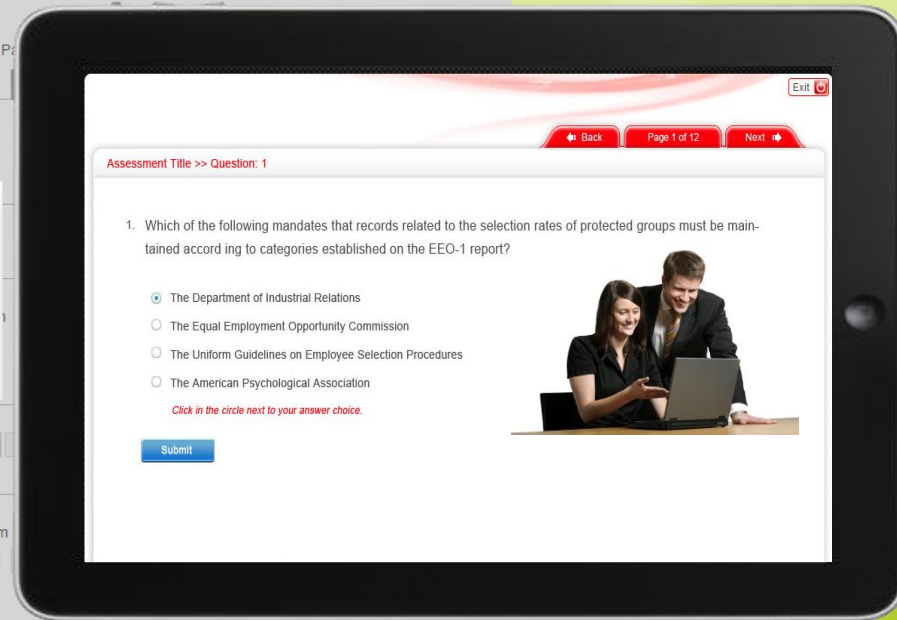
Logo:

Collaboration:

Discussion Forum: ☒ Select from existing ☐ Create a new forum

Import From MS-Word

Select file :   Sample Wo...v2.docx



# Instancy MS PowerPoint to eLearning Conversion Tool

The screenshot displays the Instancy MS PowerPoint to eLearning Conversion Tool interface. The main window features a 'Table of Contents' on the left, a 'Settings' section in the center, and a 'Collaboration' section at the bottom. A 'Select Document' dialog box is open, showing a file list with columns for Name, Last modified on, Status, and Actions. The file list includes folders like 'dev', 'EHR 2.0', 'QA', and 'Transistors', and files like '13-04-29\_LM1-Office Ergonomics-v1.pptx', '13-04-29b\_A1-PPT import1-Office Ergonomics-v1.ppt', 'AAA Test ppt2', and 'actionselling.ppt'. The 'Settings' section includes options for 'Image Size' (Fit to page size or Custom), 'Image Type' (JPEG or PNG), and 'Start File Name'. The 'Collaboration' section includes a 'Discussion Forum' dropdown and a 'Browse' button. A tablet in the foreground displays a sample eLearning question: '1. Which of the following mandates that records related to the selection rates of protected groups must be maintained according to categories established on the EEO-1 report?'. The question has four radio button options: 'The Department of Industrial Relations', 'The Equal Employment Opportunity Commission', 'The Uniform Guidelines on Employee Selection Procedures', and 'The American Psychological Association'. A 'Submit' button is at the bottom of the question. The tablet also shows navigation buttons: 'Back', 'Page 1 of 12', and 'Next'.

**Select Document**

Name	Last modified on	Status	Actions
13-04-29_LM1-Office Ergonomics-v1.pptx	4/30/2013 5:21:05 AM	Published	Insert
13-04-29b_A1-PPT import1-Office Ergonomics-v1.ppt			
AAA Test ppt2			
actionselling.ppt			

**Settings:**

Image Size: ☒ Fit to page size ☐ Custom

\*Width: 720 Height: 485

☐ Lock Aspect Ratio

Image Type: ☒ JPEG ☐ PNG

Start File Name:

**Collaboration:**

Discussion Forum: ☒ Select from existing ☐ Create a new forum

**Sample Question:**

1. Which of the following mandates that records related to the selection rates of protected groups must be maintained according to categories established on the EEO-1 report?

- ☒ The Department of Industrial Relations
- ☐ The Equal Employment Opportunity Commission
- ☐ The Uniform Guidelines on Employee Selection Procedures
- ☐ The American Psychological Association

*Click in the circle next to your answer choice.*

# Preview Content – Mobile Output

Course Preview

Web View

Tablet View

Mobile View

Preview content to see how it looks on mobile devices.

Healthcare

Lesson 1 >> Introduction

Cardiac Catheterization

Page 1 of 10

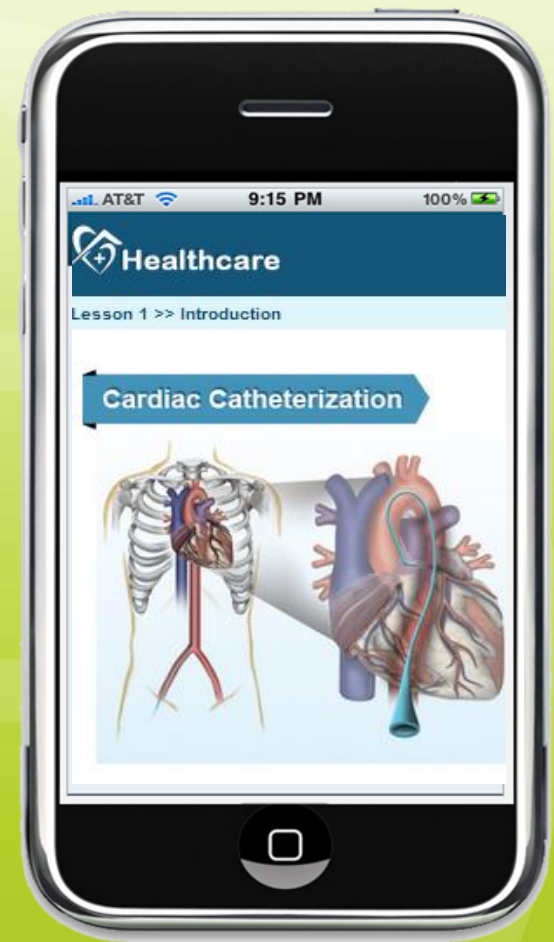
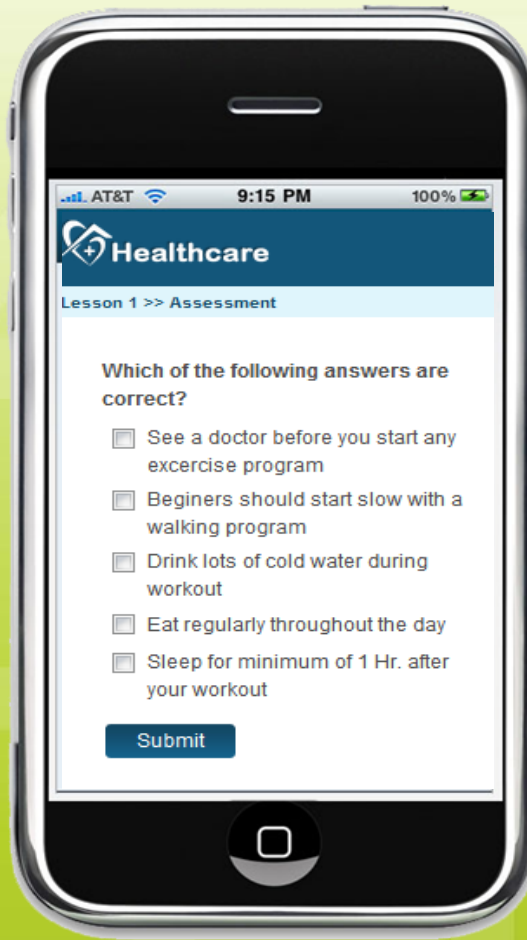
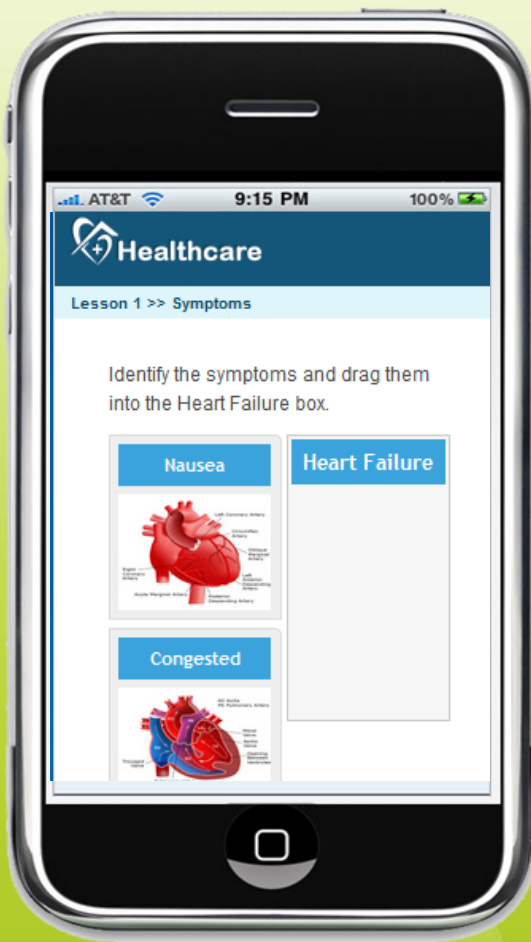
Orientation: ☒ Portrait ☐ Landscape

PUBLISH CLOSE

Status: Last updated on 10/23/2012 20:32:52 your changes are successfully saved.

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# Mobile Learning – Output



# Built-in Authoring tool – Assessment Editor

File

Home

Insert

Edit

Import

View

Review

Help

Question

Import

Save

Preview

Delete

< Page 1 of 100 >

Table of Contents

Assessment Title

Properties

Topic: ☐

Randomize: ☐ Questions ☐ Options

Track Score: ☒ Enable

\*Passing Score:  %

Negative Scoring: ☐ Enable

Score Per Assessment Item:

Negative Score:

Number of Attempts:  Note: The system will record only the best score and not necessarily the last score. Select "UL" for unlimited attempts.

Display Options: ☒ Single question per page ☐ All questions on a single page

Question numbering format:

Feedback Options:

Show Submit Button: ☐ Enable

Navigation:

\*No. of Items to Display:

Section Level Instruction: ☐ Enable

Dynamic Content Resizing: ☒ Enabled

Timer:

Turn Timer: ☐ On ☒ Off

Set Time Limit:  Hrs  Min  Sec

Show Timer:  ☒ Time Left ☐ Time Expired

Warnings:

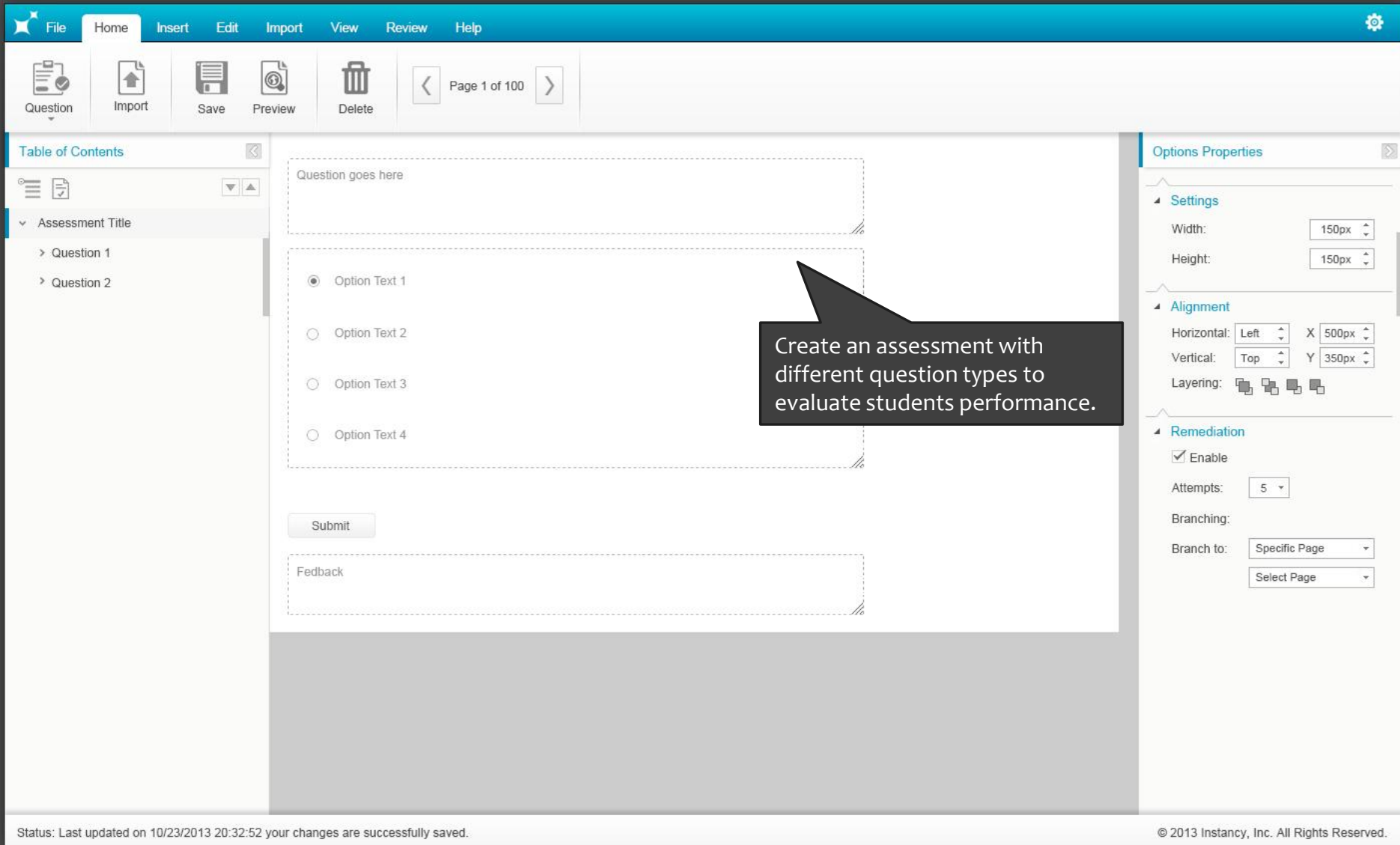
Show First Warning After:  Hrs  Min  Sec

Ability to limit amount of tries/attempts for a course

Status: Last updated on 10/23/2013 20:32:52 your changes are successfully saved.

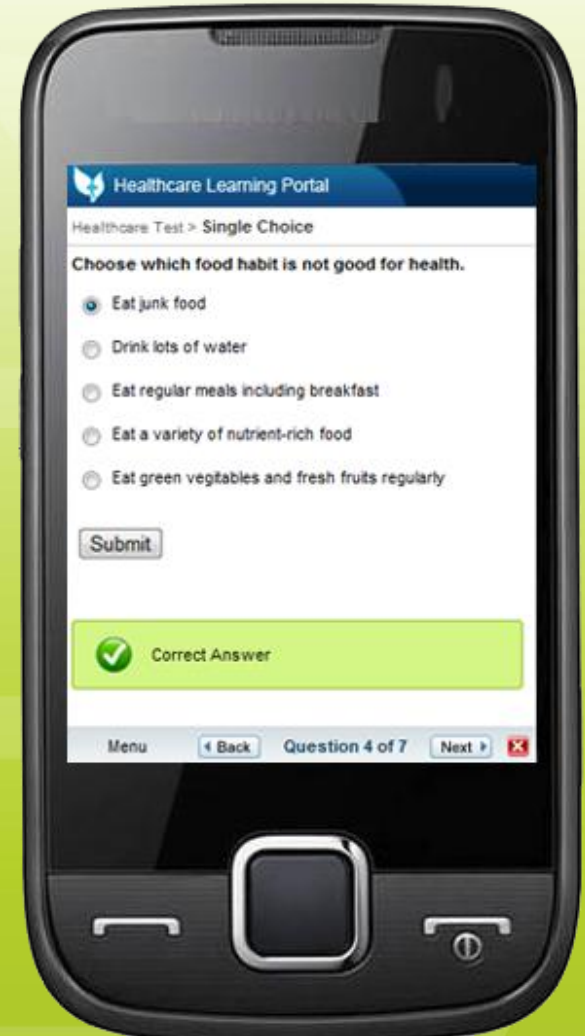
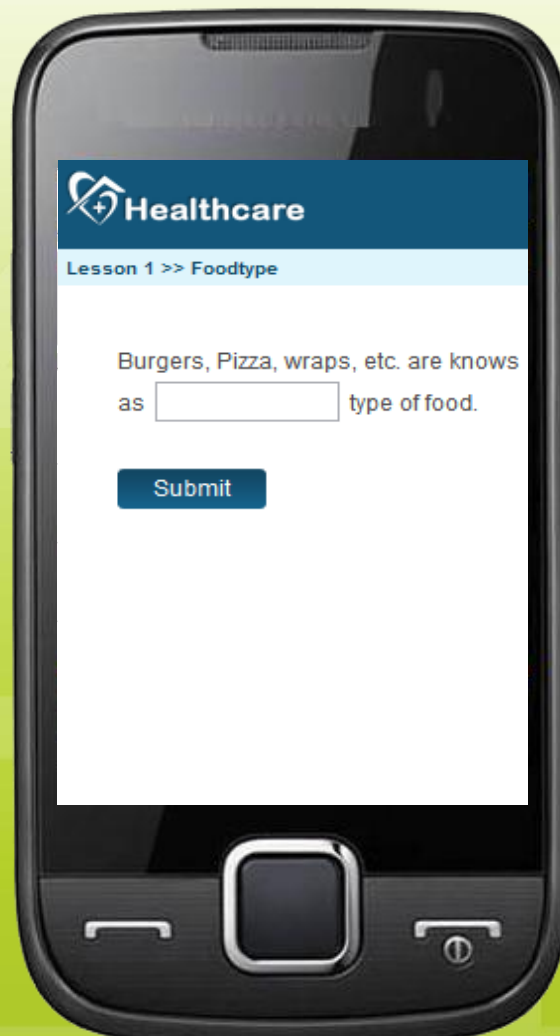
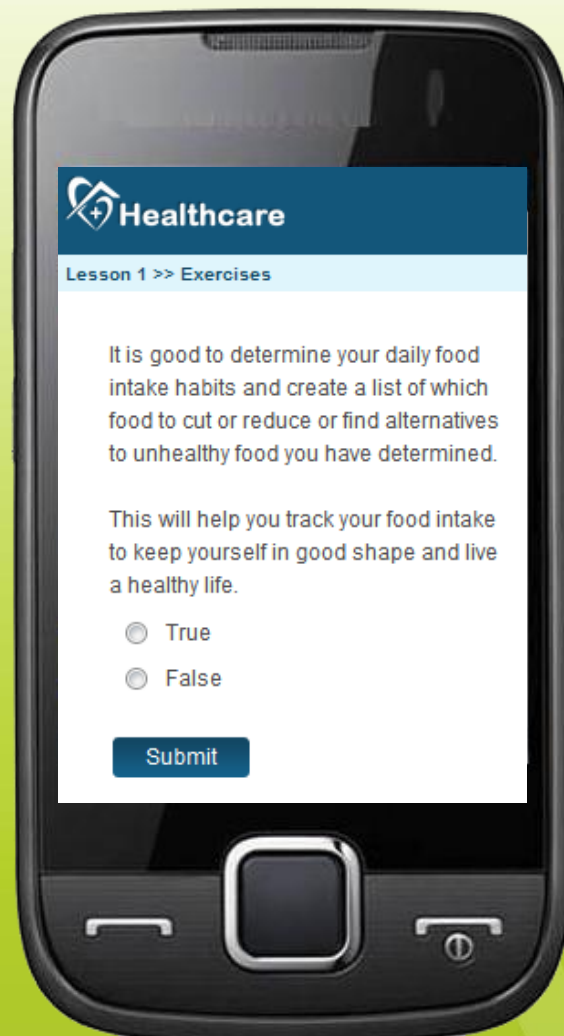
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# Built-in Authoring tool – Assessment Editor



The screenshot displays the Instancy Assessment Editor interface. At the top is a blue ribbon with tabs: File, Home, Insert, Edit, Import, View, Review, and Help. Below the ribbon is a toolbar with icons for Question, Import, Save, Preview, Delete, and navigation arrows, along with a page indicator 'Page 1 of 100'. On the left, a 'Table of Contents' sidebar shows a tree structure under 'Assessment Title' with 'Question 1' and 'Question 2'. The main workspace contains a question editor with a text box labeled 'Question goes here', a list of four radio button options ('Option Text 1' through 'Option Text 4'), a 'Submit' button, and a 'Feedback' text box. A dark callout box with a pointer to the options area contains the text: 'Create an assessment with different question types to evaluate students performance.' On the right, an 'Options Properties' sidebar includes sections for Settings (Width: 150px, Height: 150px), Alignment (Horizontal: Left, Vertical: Top, X: 500px, Y: 350px, Layering: four icons), and Remediation (Enable: checked, Attempts: 5, Branching: Specific Page, Branch to: Select Page). At the bottom, a status bar reads 'Status: Last updated on 10/23/2013 20:32:52 your changes are successfully saved.' and a copyright notice states '© 2013 Instancy, Inc. All Rights Reserved.'

# Mobile assessment – Output



## Service States



If the setup in this article doesn't match your equipment, there are other setups available that allow you to watch one program while recording another. To view these setups, go to:

- To record one channel while watching another with a VCR and cable box, go to [Watch One Channel, Record Another \(w/Cable Box and VCR\)](#).
- To record one channel while watching another without a cable box, go to [Watch One Channel, Record Another \(No Cable Box\)](#).
- To record one channel while watching another with a VCR and no cable box, go to [Watch One Channel, Record Another \(No Cable Box, Include VCR\)](#).



The setup information in this article applies to any TiVo Digital Video Recorder (DVR). The illustrations shown are specific to the Series2 DVR manufactured by TiVo (see alternate Series2 [back panel](#)), but can be adapted if you are using a different DVR. This setup is only for use with a cable box. It will not work for a satellite box because the satellite signal is not analog and cannot be split.

- To control the power and volume, and mute on your TV: Select Part 1: TV power, volume, and mute.
- To control the volume and mute on your A/V Stereo: Select Part 2: A/V volume and mute.
- To control the input setting on your TV: Select Part 3: TV Input.



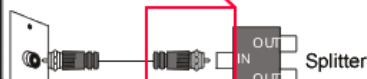
Because the signal is being split before the cable box, you will only be able to watch analog channels (generally 0-99) on the cable connected directly to the TV, but can record any channel on the cable being sent through the cable box and DVR.

**To use this configuration with your TiVo Digital Video Recorder, perform the following steps:**

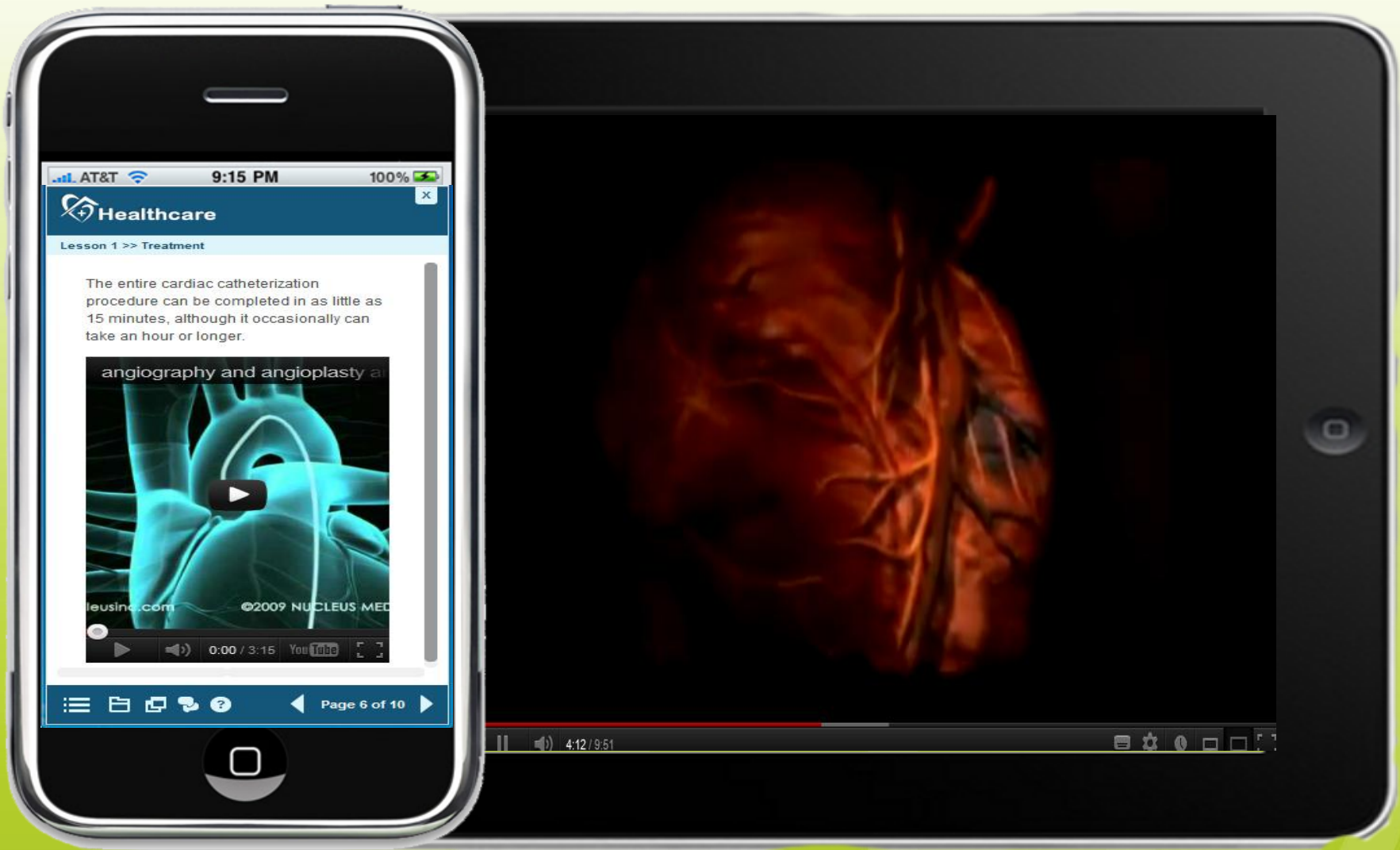
**1**

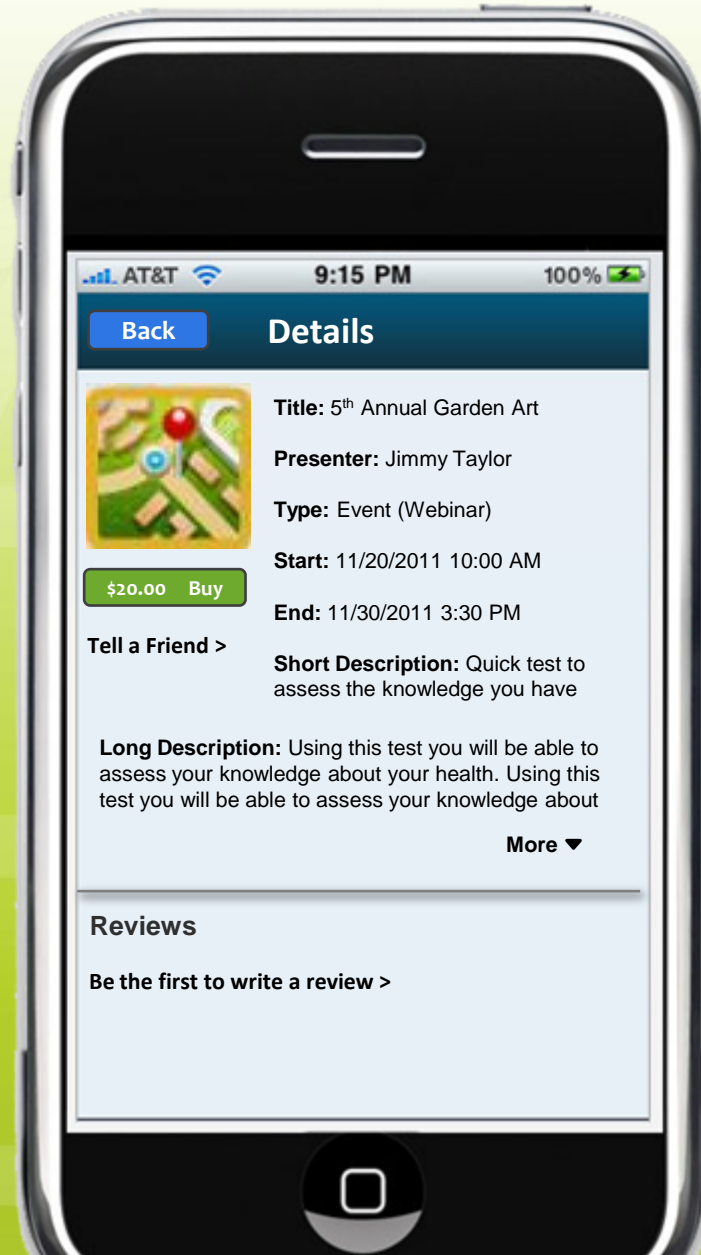
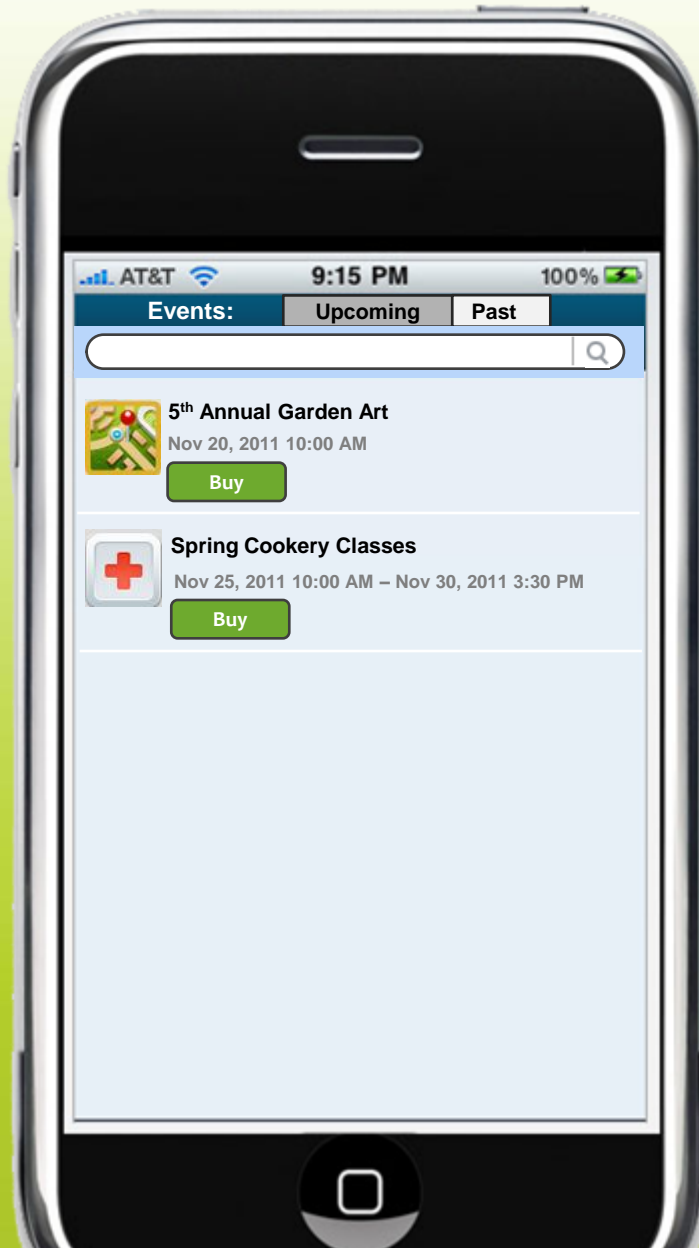
Attach the RF splitter (not included) to the RF coaxial cable coming from the wall.

**1**



# Video or eLearning modules – content type





## Step 2: Set spaced learning parameters



# Editor Settings

File

Home

Insert

Edit

Import

View

Review

Help

Question

Import

Save

Preview

Delete

< Page 1 of 100 >

Table of Contents

Assessment Title

> Question 1

> Question 2

> Question 3

> Question 4

> Question 5

> Question 6

> Question 7

> Question 8

> Question 9

> Question 10

Properties

Workflow Rules

Content Area

Width: 850px Height: 500px

Options:

Topic:

Randomize:

Track Score:

\*Passing Score:

Negative Scoring:

Score Per Assessment Item:

Negative Score:

Number of Attempts:

Display Options:

Question numbering format:

Feedback Options:

Show Submit Button:

Navigation:

\*No. of Items to Display:

Section Level Instruction:

Dynamic Content Resizing:

☐

☐ Questions ☐ Options

Point-based scoring

500

☒ Enable

Unlimited

☒ Single question per page ☐ All questions on a single page

None

After Assessment Item

☐ Enable

Allo Navigation

10 / 10

☐ Enable

☒ Enable

Note: The system will record only the best score and not necessarily the last score. Select "UL" for unlimited attempts.

Custom Logo:

Select Logo: Browse...

Status: Last updated on 10/23/2013 20:32:52 your changes are successfully saved.

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# Spaced Options in Editor

File

Home


Insert


Edit


Import


View


Help

 Question

 Import

 Save

 Preview

 Delete


 Page 1 of 100

Table of Contents

Properties

Workflow Rules

Assessment Title

Question 1

Question 2

Question 3

Question 4

Question 5

Question 6

Question 7

Question 8

Question 9

Question 10

Spaced Notification Rules

Spaced Notification Rules may be used to deliver learning nuggets to the learner over a sustained period of time to help learners improve their skill and knowledge retention and application.

Number of questions per delivery:

1


of 10

Frequency of delivery:

days

Start delivery:

On



Delivery mode:

☒ Email

☐ Push notifications

☐ Web portal

Resend questions with incorrect responses:

days

Resend questions with correct responses:

days

Number of correct responses to retire a question:

2

☐ Allow users to change the delivery preferences

Status: Last updated on 10/23/2012 20:32:52 your changes are successfully saved.

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## **Step 3: Assign content to learners and enable learners to change the spacing**



# Portal Logo

Welcome  
John Smith

Current Role: Admin

Home

Sites

Users

Content

Catalog

Events

Components

Reports

Coupon

Profile

Help

Logout

Users

Search Users:

SEARCH

ADVANCE SEARCH

+ NEW GROUP

+ NEW USER

Sites/Groups

☐ Playground

☐ Health Care

☐ Health Check

☐ Health Awareness

☐ Health & Safety

Active Users

<input type="checkbox"/>	Photo	First Name	Last Name	Email	Role	Actions
<input type="checkbox"/>		Andrew	Fuller	Andrew@abc.com	Learner	Edit
<input type="checkbox"/>		Nancy	Davolio	nancy@abc.com	Learner	Edit
<input type="checkbox"/>		Janet	Leverling	janet@abc.com	Learner	Edit
<input type="checkbox"/>		Margaret	Peacock	peacock@abc.com	Learner	Edit
<input type="checkbox"/>		Steven	Buchanan	Steven@abc.com	Learner	Edit
<input type="checkbox"/>		Michael	Suyama	Michael@abc.com	Learner	Edit
<input type="checkbox"/>		Robert	King	Robert@abc.com	Learner	Edit
<input type="checkbox"/>		Laura	Challehan	Laura@abc.com	Learner	Edit
<input type="checkbox"/>		Anne	Dodsworth	Anne@abc.com	Learner	Edit
<input type="checkbox"/>		Nancy	Davolio	nancy@abc.com	Learner	Edit

1

2

3

...

Page size: 5

Admin can manage users into groups.

# View Assigned Content of a User

## Portal Logo

Welcome  
John Smith

Current Role: Admin

Home Sites **Users** Content Catalog Events Components Reports Coupon Profile Help Logout

Users / Assign Content

Selected User: Andrew



ADD CONTENT

SAVE ASSIGNMENT

### Content Assigned

Name	Content Type	Assigned By	Assigned On	Target Date	Started On	Status	Actions
Cardiac Catheterization	Learning Track	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign
Cardiac Catheterization	Learning Module				12/28/2011	Completed	Change Status
Catheterization Test	Assessment				12/28/2011	Passed	Change Status
Cardiac Catheterization	Event	Self	12/28/2011		12/28/2011	Registered	Unassign
SafeCare Physician	Learning Module	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign
Cardiac Catheterization	Assessment	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign
Physical Product - Book	Document	Self	9/27/2012		09/27/2012	In Progress	Unassign
Cardiac Catheterization	Learning Track	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign
Physician Course	Learning Module	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign
Physical Catheterization	Learning Track	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign
SafeCare Physician	Learning Module	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign
Cardiac Catheterization	Learning Track	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign

1 2 3 ...

Page size: 5

Admin can see the list of content items assigned to a particular user.

# Assign Content to User

## Portal Logo

Welcome John Smith  
Current Role: Admin

Home | Sites | Users | Content | Catalog | Events | Components | Reports | Coupon | Profile | Help | Logout

Add Content

Selected User: Andrew

Select Content:  Filter by Content: All

<input type="checkbox"/> Name	Content Type	Output	Author
<input checked="" type="checkbox"/> Catheterization Procedure	Learning Track	HTML	Smith
<input checked="" type="checkbox"/> Abnormal Stress	Learning Module	Flash	Smith
<input type="checkbox"/> Catheterization Certification	Assessment	Mobile	Smith
<input type="checkbox"/> Catheterization Stress	PDF	PDF	Smith
<input type="checkbox"/> A Workplace Diversity	EPUB	EPUB	Smith

ASSIGN CANCEL

Admin can assign content to users.

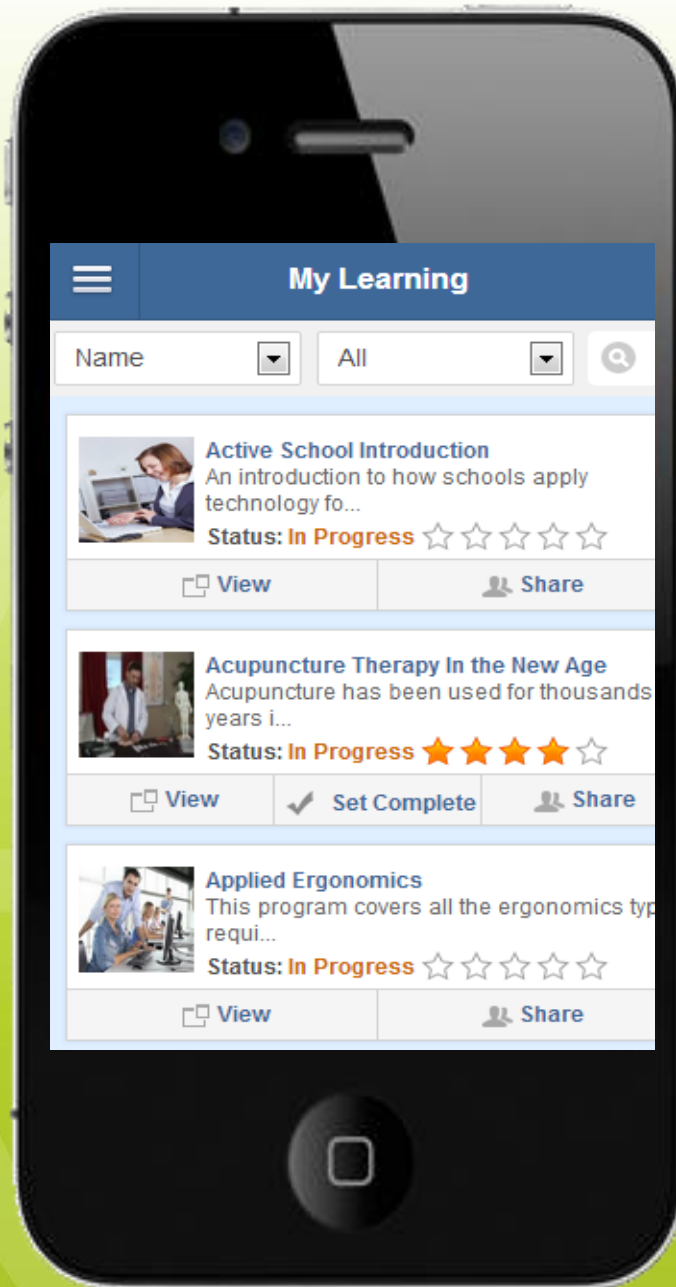
Physical Catheterization	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign	
SafeCare Physician	Learning Module	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign
Cardiac Catheterization	Learning Track	Self	9/27/2012	9/27/2012	09/27/2012	Completed	Unassign

Page size: 5

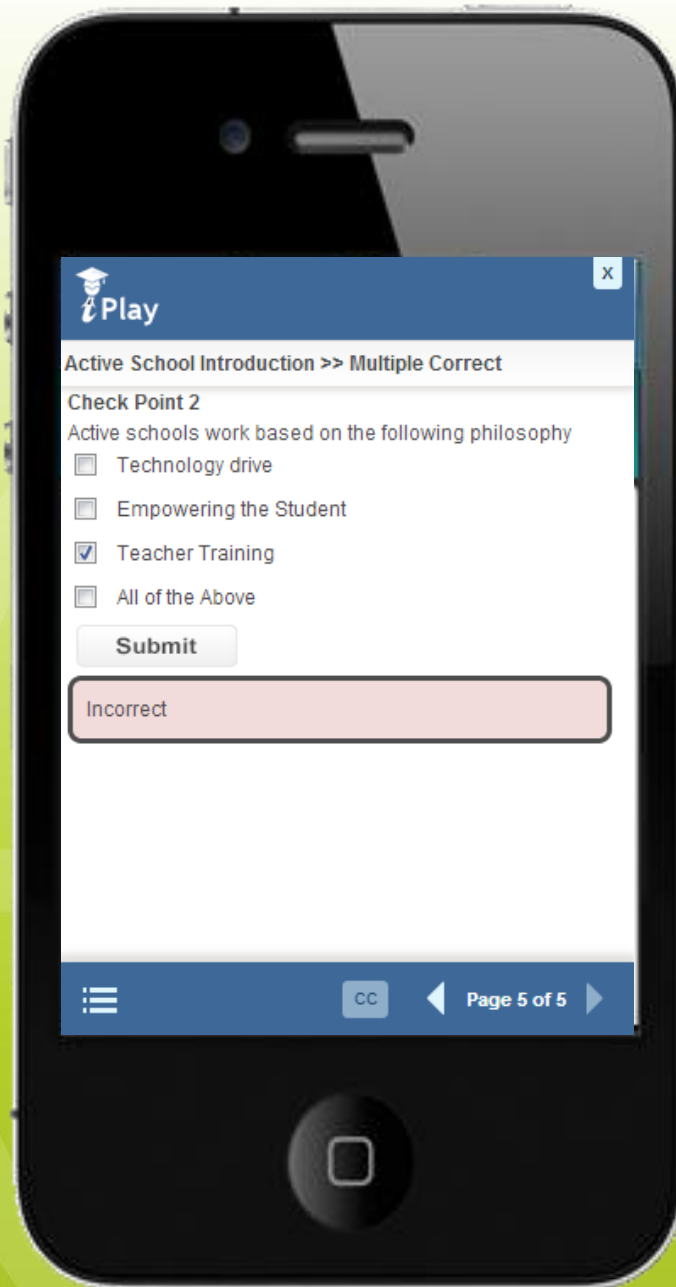
© 2012 Portal created on Enlightus

# Mobile Spaced Learning - Notification

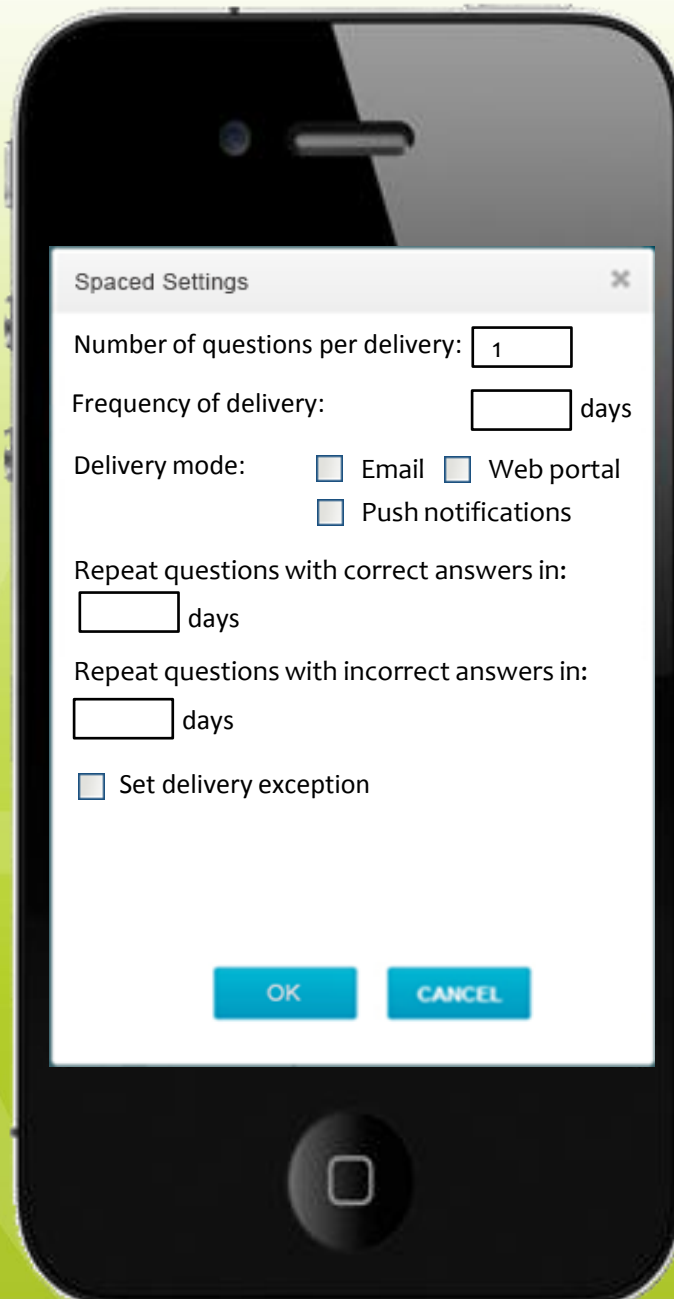




# View eLearning Content – Spaced Learning Based



# Mobile Spaced Learning Settings – Learners' Ability to Change Spacing



The image shows a black smartphone with a white dialog box titled "Spaced Settings" centered on its screen. The dialog box has a close button (an 'x' in a circle) in the top right corner. It contains several settings: "Number of questions per delivery:" with a text input field containing the number "1"; "Frequency of delivery:" with a text input field and the word "days" to its right; "Delivery mode:" with three checkboxes labeled "Email", "Web portal", and "Push notifications", all of which are currently unchecked; "Repeat questions with correct answers in:" with a text input field and the word "days" to its right; "Repeat questions with incorrect answers in:" with a text input field and the word "days" to its right; and a checkbox labeled "Set delivery exception" which is also unchecked. At the bottom of the dialog box are two blue buttons labeled "OK" and "CANCEL".

Spaced Settings

Number of questions per delivery:

Frequency of delivery:  days

Delivery mode: ☐ Email ☐ Web portal  
☐ Push notifications

Repeat questions with correct answers in:  
 days

Repeat questions with incorrect answers in:  
 days

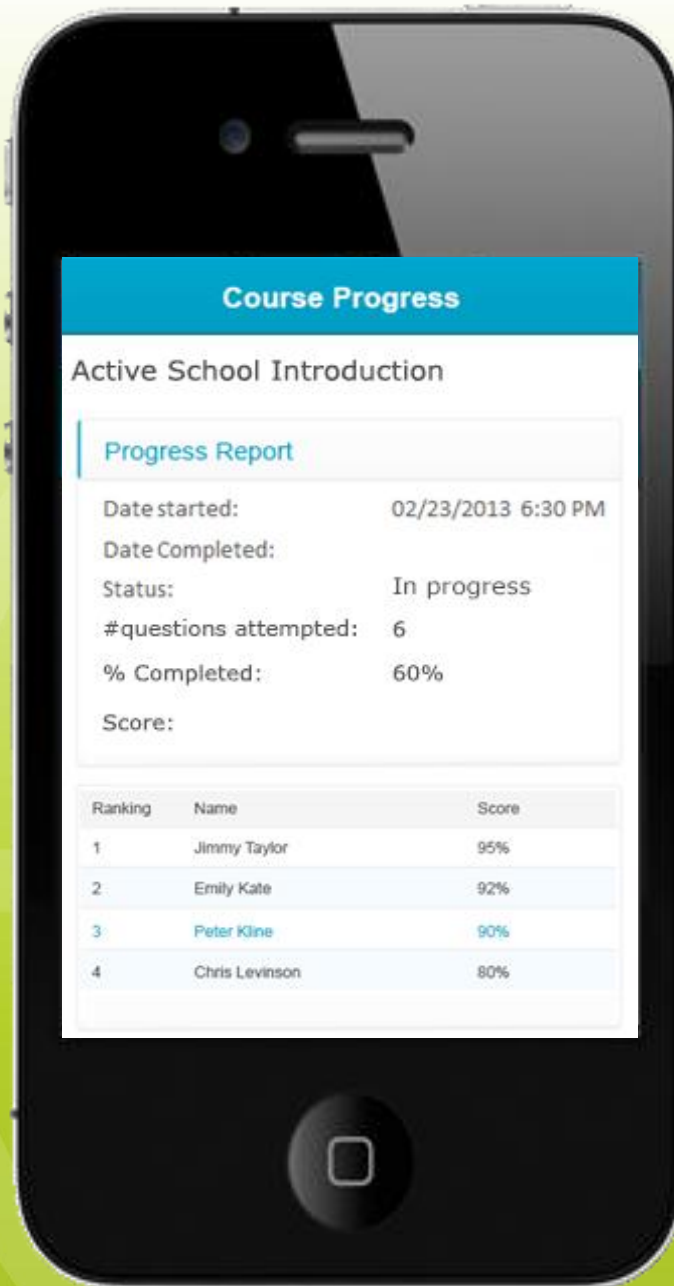
☐ Set delivery exception

OK CANCEL

## Step 4: Learner can track their own progress and complete (Gamification of Spaced Learning)



# View Progress and Compare Score with Other Learners



## Step 5: View dashboards and Learner progress reports



# Standard Reporting Capability

## Portal Logo

Welcome  
John Smith  
Current Role: Admin

[Home](#) [Sites](#) [Users](#) [Content](#) [Catalog](#) [Events](#) [Components](#) [Reports](#) [Coupon](#) [Profile](#) [Help](#) [Logout](#)

### Users

Search Users:

SEARCH ADVANCE SEARCH

+ NEW GROUP

Sites/Groups

Playground

Health Care

Health Check

Health Awareness

Health & Safety

+ NEW USER

Active Users

<input type="checkbox"/> Photo	First name	Last name	Email	Role	Actions
		Fuller	Andrew@abc.com	Learner	Edit
		Davolio	nancy@abc.com	Learner	Edit
		Leverling	janet@abc.com	Learner	Edit
		Peacock	peacock@abc.com	Learner	Edit
		Buchanan	Steven@abc.com	Learner	Edit
		Suyama	Michael@abc.com	Learner	Edit
		King	Robert@abc.com	Learner	Edit
		Challahan	Laura@abc.com	Learner	Edit
		Dodsworth	Anne@abc.com	Learner	Edit
	Nancy	Davolio	nancy@abc.com	Learner	Edit

1 2 3 ...

Page size: 5

Details

New group

Assign content

Send message

Batch tools

Delete

Reports

Users report

Content details report

Performance summary report

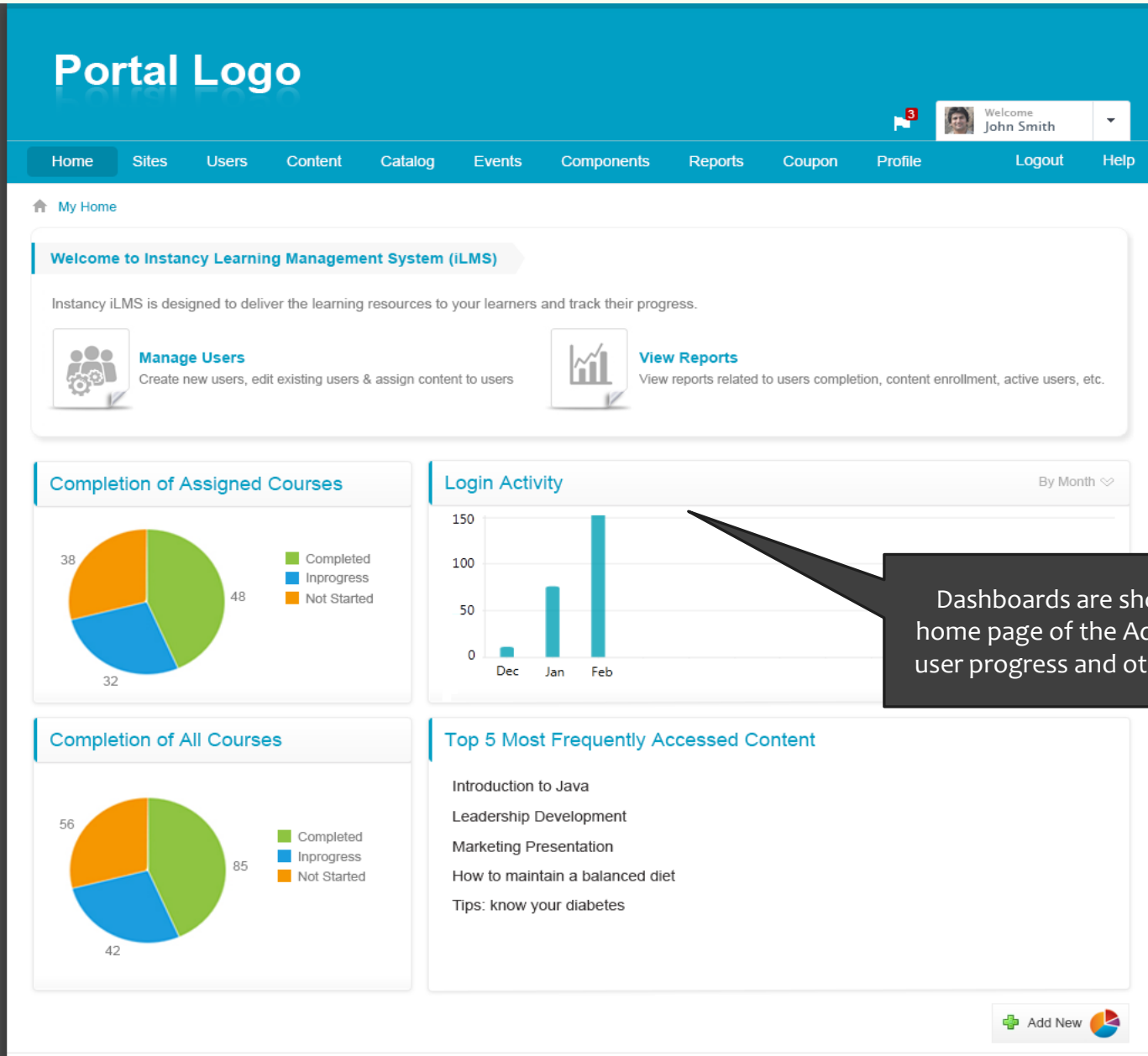
Monthly sales report

Active users report

Content details report

User progress details report

The group related reports can be run from the action dropdown next to each group.



Dashboards are shown on the home page of the Admin to show user progress and other analytics.

# Completion Report – By User

Portal Logo



Export Report



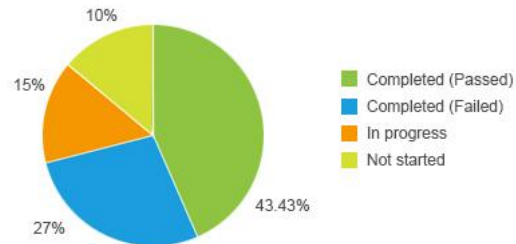
## Playground - Content Completion by Each User

Generated By: Peter Kline    Generated On: 12/10/2012 07:52:28 AM

From Date: 11/29/2012    -    To Date: 12/10/2012

### Completion Summary

Total Users	:	<b>1000</b>	<a href="#">View List</a>
Total Completed (Passed) Users	:	<b>430</b>	<a href="#">View List</a>
Total Completed (Failed) Users	:	<b>270</b>	<a href="#">View List</a>
Total In Progress Users	:	<b>150</b>	<a href="#">View List</a>
Total Not Started Users	:	<b>100</b>	<a href="#">View List</a>



### Details

Content Name	Date Assigned	Start Date	Completion Date	Last Accessed	Time Spent	Status	% Completed	Score
▼ Jo Hamilton								
Human Fundamentals	2012/09/06 10:12:15	2012/09/07 13:49:00	2012/09/07 13:49:00	2012/09/07 13:49:00	01 hr 15 mnts 10 sec	Completed	100%	80
Network Security Fundamentals	2012/09/06 10:12:15	2012/09/07 13:49:00	2012/09/07 13:49:00	2012/09/07 13:49:00	01 hr 05 mnts 55 sec	In progress	50%	
▶ Chris Stepper								
▶ Taylor Jimmy								
▶ Moore Chris								
▶ Thomas John								

Generated report  
by each user

# Assessment Analysis Report – Question Level Analysis

Portal Logo



Export Report ▼



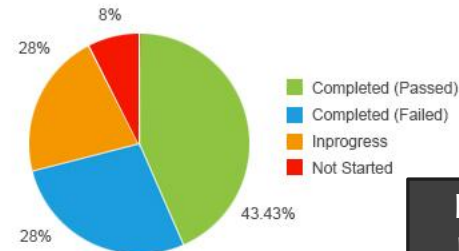
## Assessment Title - Analysis Report

Generated By: Peter Kline    Generated On: 27/02/2013 07:52:28 AM

From Date: 11/29/2012    To Date: 27/02/2013

### Summary

Number of users assigned	:	<b>1000</b>	<a href="#">View List</a>
Total Completed Assignments	:	<b>900</b>	<a href="#">View List</a>
Total Inprogress Assignments	:	<b>100</b>	<a href="#">View List</a>
Total Not Started Assignments	:	<b>580</b>	<a href="#">View List</a>



Item level analysis to see how users responded to each question.

### Details

Sl.No.	Question	Type	# Learners Attended	% Correct	% InCorrect	% Not Attempted
1	The best way to treat and control high blood pressure is:	True or False	50	25	20	5
2	What causes hearing loss?	Multiple Correct	50	25	20	5
3	The best way to treat and control high blood pressure is:	Single Correct	50	25	20	5
4	What causes hearing loss?	Fill in the blanks	50	25	20	5
5	The best way to treat and control high blood pressure is:	True or False	50	25	20	5
6	What causes hearing loss?	True or False	50	25	20	5

# Summary and Future Considerations

- Adaptive Learning / Personalized Spaced Learning
- Blending Spaced Learning with Job-Task/Work-Performance
- Smarter Spaced Learning Delivery Engines
  - Automated adjustment in the spacing
  - Automated adjustment in the number of repetitions
- Advanced Analytics
  - Co-relate learning with job performance
  - Predictive analytics

# For Spaced Learning Key Points

Please contact me at:

[hsingh@instancy.com](mailto:hsingh@instancy.com)

919-606-7058

View PowerPoint Slides:

[http://www.instancy.com/Webinar/Spaced\\_Mobile\\_Learning.aspx](http://www.instancy.com/Webinar/Spaced_Mobile_Learning.aspx)